BRUHATH BANGALORE MAHANAGARA PALIKE

Package1 a Improvements to playgrounds at Thanisandra Village at Ward No 06 b Improvements to Suvarana Mahotsava Play Ground on Vidyaranyapura Main road at Ward No 09 c Improvements to playgrounds at Ward No 11 Kuvempunagarad Developmental Works to Play ground stadium in Ward No 05 Jakkur e Developmental works to Play ground Stadium Kathasaranagara Ward No 08 Kodigehalli

RATE ANALYSIS

(Based on Schedule of Rates for the year 2018- 2019 PW, P&IWTD Bangalore Circle.

Sl. No.	Description of work	Unit	SR Page No	Item No	Basic Rate Rs.	AW 6%	Sub Total Rate in Rs.	Tender Premiun in Rs.	Total Rate in Rs.
	Work Slip Items								
1	Providing and laying plain / reinforced cement concrete for side drains using M20 nominal mix concrete with OPC cement at 300 Kg. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500,1700,2200. - do - Wall & Bottom thickness 15cm	Cum	271			400.20	**7070.20**	353.51	**7423.71**
2	Providing TMT steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. - do - TMT bars Fe 500.	Tn	18			4257.96	**75223.96**	3761.20	**78985.16**

Sl. No.	Description of work	Unit	Data						
3	Fabrication supplying and erecting M.S. tubular trusses of all spans as per approved drawing & design with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge ar.d polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, letc., complete as per specification.	Kg	43	7.29	111.00	6.66			
	EIRL Items								
4	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,complete.	Sqm	Data rate		2337.00	0.00	**2337.00**	116.85	
5	Fabricating, providing and erecting in position of MS Hot Dip Galvanised Sq. Hallow Poles of 132 X 132 Heavy gauge of length 3000mm with MS. Hot dip Galvanised grill work as per approved design and drawing of chief architect. Using 12 X 75mm galvanised flat for alround frame and 20 X 20mm galvanised forged design with square for vertical at 150mm c/c as shown in the drawing including providing forged ornamental arrowhead at top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery andincidental charges for the successful completion of the work as per the direction of the Engineer-in-charge of the work. (Data Rate)	Sqm	Data rate		9144.00	0.00	**9144.00**	457.20	9601.20

Sl. No.	Description of work	Unit	SR Page No	Item No.	Basic Rate in Rs.	AW 6%	Sub Total Rate in Rs.	Tender Premiun in Rs.	Total Rate in Rs.
6	Fabricating, providing and erecting in position Hot dip galvanised Gate. Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineer-in-charge of the work. (Data Rate	Sqm	Data rate		12475.00		12475.00	623.75	13098.75
7	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications.	Cum	7	2.15	2459.00	145.74	2574.74	128.74	2703.48
8	KSRB 14.6 : Providing and laying heavy duty cobble stones interlock pavers, 60mm thick using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications.	Sqm	103	14.6	1053.00	63.18	1116.18	55.81	1171.99
9	Providing and fixing for flooring 20mm thick sadarhalli grey granite in CM 1:4 roportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of including cost of all materials, mortar, labour, curing etc., complete as per specification. minimum width of 900mm (gang saw water cut)	Sqm	112	14.61.2	1979.00	118.74	2097.74	104.89	2202.63
10	KSRB 14.4 : Providing and laying flooring and steps fine dressed granite stone slabs 40 mm thick on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed, including cost of materials, mortar, labour, curing complete as per specifications.	Sqm	103	14.4	3241.00	194.46	3435.46	171.77	3607.23

BRUHATH BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE, PROJECT DIVISION

Work Slip: As per Std Tender Documents

Name of Work: Package1 a Improvements to playgrounds at Thanisandra Village at Ward No 06 b Improvements to Suvarana Mahotsava Play Ground on Vidyaranyapura Main road at Ward No 09 c Improvements to playgrounds at Ward No 11 Kuvempunagarad Developmental Works to Play ground stadium in Ward No 05 Jakkur e Developmental works to Play ground Stadium Sahakaranagara Ward No 08 Kodigehalli

Amount Put to Tender:- Rs. 5,23,76,270/-

Name of Contractor:- Sri Arun Kumar. R

Approved amount:- Rs. 5,50,00,000.00/-

Tender premium:- 5.00% above

Sl. No.	Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty. as per Anticipated upto 125%			Qty. as per Anticipated above 125%			Total Amount	excess amount	Savings amount	Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amt				
1	2	3	4	5	6	10	11	12	13	14	15	16	17	18	19	20
1	Providing and laying plain / reinforced cement concrete for side drains using M20 nominal mix concrete with OPC cement at 300 Kg. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500,1700,2200. - do - Wall & Bottom thickness 15cm	Cum	118.57	7867.69	932872.00	236.65	148.21	7867.69	1166090.00	88.44	7423.71	656543.63	1822633.63	889761.63	0.00	
2	Providing TMT steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. - do - TMT bars Fe 500.	Tn	29.01	68728.34	1993809.14	38.37	36.26	68728.34	2492261.43	2.10	68728.34	144660.44	2636921.87	643112.73	0.00	

	Fabrication supplying and erecting M.S. tubular trusses of all spans as per approved drawing &															
3	design with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge ar.d polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, lete., complete as per specification.	Kg	1377.00	124.74	171766.98	6614.83	1721.25	124.74	214708.73	4893.58	123.54	604567.80	819276.53	647509.55	0.00	
4	Providing and fixing 6mm Bronze Multi wall poly carbonate sheet for Tubular structure. The work including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipment, complete as per specification.as per direction of Engineer-in-charge.	Sqm	175.50	2823.66	495552.33	197.40	197.40	2823.66	557390.48	0.00	0.00	0.00	557390.48	61838.15	0.00	
	Grand total								4808222.52			1405771.87	6213994.39	2242222.05		

Note: Percentage of Workslip over the sanctioned Estimate=Excess amount over the approved amount/Amount Put to tender x 100

(2242222.05/55000000.00)x100 = 4.08%

Total cost as per Approved Amount, Rs = 55000000.00

Total cost of Work Slip Amount, Rs= 2242222.05

% of EIRL = 4.08

Contractor

Assistant Engineer
Yelahanka Project Division

Asst Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

BRUHAT BANGALORE MAHANAGARA PALIKE

Package1 a Improvements to playgrounds at Thanisandra Village at Ward No 06 b Improvements to Suvarana Mahotsava Play Ground on Vidyaranyapura Main road at Ward No 09 c Improvements to playgrounds at Ward No 11 Kuvempunagarad Developmental Works to Play ground stadium in Ward No 05 Jakkur e Developmental works to Play ground Stadium Sahakaranagara Ward No 08 Kodigehalli

EIRL

Amount Put to Tender:- Rs 5,2,76,270/-
Approved Amount:- Rs 5,50,00,000.00/-
Name of Contractor:- Sri Arun Kumar. R
Tender premium:- 5.00% Above

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount in Rupees	Whether item alternate to item in the tender or whether they are additional item (if, in lieu of the same item in the accepted tender such items should be mentioned.	Whether the extra item is included in the sanctioned estimate.	How the extra cost of the item is proposed to be met	Whether the extra item is included in the Schedule of rates of the division, if not, data sheet should accompany the rate list.	Remarks
1	2	3	4	5	6	7	8	9	10	11
1	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,complete.	Sqm	560.40	2453.85	1375137.54	ADDITIONAL ITEM	No	General savings	Data rate	

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount in Rupees	Whether item alternate to item in the tender or whether they are additional item (if, in lieu of the same item in the accepted tender such items should be mentioned.	Whether the extra item is included in the sanctioned estimate.	How the extra cost of the item is proposed to be met	Whether the extra item is included in the Schedule of rates of the division, if not, data sheet should accompany the rate list.	Remarks
1	2	3	4	5	6	7	8	9	10	11
2	Fabricating, providing and erecting in position of MS Hot Dip Galvanised Sq. Hallow Poles of 132 X 132 Heavy gauge of length 3000mm with MS. Hot dip Galvanised grill work as per approved design and drawing of chief architect. Using 12 X 75mm galvanised flat for alround frame and 20 X 20mm galvanised forged design with square for vertical at 150mm c/c as shown in the drawing including providing forged ornamental arrowhead at top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery andincidental charges for the successful completion of the work as per the direction of the Engineer-in-charge of the work. (Data Rate)	Sqm	108.57	9601.20	1042402.28	ADDITIONAL ITEM	No	General savings	Data rate	

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount in Rupees	Whether item alternate to item in the tender or whether they are additional item (if, in lieu of the same item in the accepted tender such items should be mentioned.	Whether the extra item is included in the sanctioned estimate.	How the extra cost of the item is proposed to be met	Whether the extra item is included in the Schedule of rates of the division, if not, data sheet should accompany the rate list.	Remarks
1	2	3	4	5	6	7	8	9	10	11
3	Fabricating, providing and erecting in position Hot dip galvanised Gate. Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist od gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS. using	Sqm	28.32	13098.75	370956.60	ADDITIONAL ITEM	No	General savings	Data rate	

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount in Rupees	Whether item alternate to item in the tender or whether they are additional item (if, in lieu of the same item in the accepted tender such items should be mentioned.	Whether the extra item is included in the sanctioned estimate.	How the extra cost of the item is proposed to be met	Whether the extra item is included in the Schedule of rates of the division, if not, data sheet should accompany the rate list.	Remarks
1	2	3	4	5	6	7	8	9	10	11
4	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications.	Cum	414.34	2703.48	1120147.85	ADDITIONAL ITEM	No	General savings	2018-19 SR, Page No 7 Item No. 2.15	
5	KSRB 14.6 : Providing and laying heavy duty cobble stones interlock pavers, 60mm thick using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications.	Sqm	419.00	1171.99	491057.53	ADDITIONAL ITEM	No	General savings	2018-19 SR, Page No 103 Item No. 14.6	
6	Providing and fixing for flooring 20mm thick sadarhalli grey granite in CM 1:4 roportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of including cost of all materials, mortar, labour, curing etc., complete as per specification. minimum width of 900mm	Sqm	131.69	2202.63	290063.95	ADDITIONAL ITEM	No	General savings	2018-19 SR, Page No 112 Item No. 14.61.2	

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount in Rupees	Whether item alternate to item in the tender or whether they are additional item (if, in lieu of the same item in the accepted tender such items should be mentioned.	Whether the extra item is included in the sanctioned estimate.	How the extra cost of the item is proposed to be met	Whether the extra item is included in the Schedule of rates of the division, if not, data sheet should accompany the rate list.	Remarks
1	2	3	4	5	6	7	8	9	10	11
7	KSRB 14.4 : Providing and laying flooring and steps fine dressed granite stone slabs 40 mm thick on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed, including cost of materials, mortar, labour, curing complete as per specifications.	Sqm	201.33	3607.23	726244.22	ADDITIONAL ITEM	No	General savings	2018-19 SR, Page No 103 Item No. 14.4	
8	Providing half nosing for 40mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM etc., complete as per specification	m	273.30	400.68	109505.84	ADDITIONAL ITEM	No	General savings	2018-19 SR, Page No 111 Item No. 14.54	
9	Providing groove cutting for width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications.	m	1183.50	150.26	177826.79	ADDITIONAL ITEM	No	General savings	2018-19 SR, Page No 176 Item No. 22.8.1	

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount in Rupees	Whether item alternate to item in the tender or whether they are additional item (if, in lieu of the same item in the accepted tender such items should be mentioned.	Whether the extra item is included in the sanctioned estimate.	How the extra cost of the item is proposed to be met	Whether the extra item is included in the Schedule of rates of the division, if not, data sheet should accompany the rate list.	Remarks
1	2	3	4	5	6	7	8	9	10	11
10	Providing and fixing M.S. Hand railing for Balcony/Staircase etc., with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete . The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding	Sqm	163.50	3160.92	516810.42	ADDITIONAL ITEM	No	General savings	2018-19 SR, Page No 44 Item No. 7.4	
				TOTAL ERIL AMOUNT	6220153.03					

Note: Percentage of Extra item over the sanctioned Estimate=Extra item amount over the approved amount/Amount Put to tender x 100
(6220153.03/55000000)x100 = 11.31%

Total cost as per Approved Amount, Rs = **55000000.00**

Total cost of EIRL Amount, Rs= **6220153.03**

% of EIRL = **11.31**

Contractor

Assistant Engineer
Yelahanka Project Division

Assistant Executive Engineer
Yelahanka Project Division

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Executive Engineer
Yelahanka Project Division

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

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